

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/26/97

Date Received: 09/11/97

Project: Metro Self Monitor, PO #M58349

Date Samples Extracted: 09/17/97

Date Extracts Analyzed: 09/23/97

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, ZINC
USING METHOD 6010**

Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M58349	0.27	0.24	0.26	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/26/97

Date Received: 09/11/97

Project: Metro Self Monitor, PO #M58349

**QUALITY ASSURANCE RESULTS FOR
THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 709071-01 (Duplicate)

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>Relative Percent Difference</u>	<u>Acceptance Criteria</u>
Chromium	mg/L (ppm)	0.84	0.79	6	0-20
Copper	mg/L (ppm)	0.73	0.76	4	0-20
Nickel	mg/L (ppm)	0.84	0.83	1	0-20
Zinc	mg/L (ppm)	0.14	0.13	7	0-20

Laboratory Code: 709071-01 (Matrix Spike)

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>Sample Result</u>	<u>% Recovery MS</u>
Chromium	mg/L (ppm)	5	0.84	94
Copper	mg/L (ppm)	5	0.73	94
Nickel	mg/L (ppm)	10	0.84	92
Zinc	mg/L (ppm)	5	0.14	102

Laboratory Code: Spike Blank

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>% Recovery</u>		<u>Acceptance Criteria</u>	<u>Relative Percent Difference</u>
			<u>MS</u>	<u>MSD</u>		
Chromium	mg/L (ppm)	5	110	94	80-120	16
Copper	mg/L (ppm)	5	101	98	80-120	3
Nickel	mg/L (ppm)	10	101	82	80-120	21
Zinc	mg/L (ppm)	5	95	92	80-120	3

PJ# 709053 MK AI
09.11.97
CHAIN OF CUSTODY 1:25

09-11-97
1:25

Send Report To: Alaskan Copper Work Contact Gerald Thompson
Company 628 Hansen St
Address Seattle, WA 98134
City, State, Zip (206) 382-8379 FAX # (206) 382-8509 Date 9-11-97
Phone #

PURCHASE ORDER #

SAMPLER8 (signature)

PROJECT LOCATION

REMARKS

SAMPLE DISPOSAL INFORMATION

Dispose after 30 days
Return Samples
Call for Instructions

SIGNATURE

PRINT NAME

COMPANY

Date _____

Time

Received by:				
--------------	--	--	--	--

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

September 26, 1997

DUPLICATE COPY

INVOICE #97ACU0926-2

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M58349: Results of testing requested
by Gerry Thompson for material submitted on September 11, 1997.

1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due

\$ 65.00

FEDERAL TAX ID # (b) (6)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

September 26, 1997

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

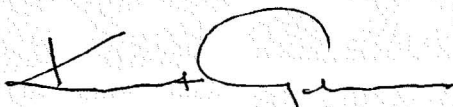
Dear Mr. Thompson:

Included are the results from the testing of material submitted on September 11, 1997 from your Metro Self Monitor, PO #M58349 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

A handwritten signature in black ink, appearing to read 'Kurt Johnson', with a stylized flourish at the end.

Kurt Johnson
Chemist

Enclosures
ACU0926R.DOC